PATENT COOPERATION TREATY

Sender:

THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To: HAMANN, Arndt Saurer GmbH & Co. KG Landgrafenstrasse 45		NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT (Rule 71.1 PCT)
41069 Mönchengladbach GERMANY	- - - -	Date of mailing (Day/month/year) 28.03.2006
Applicant's or agent's file reference WS 2254 PCT	IMPOR	FANT NOTIFICATION
International application No.	International filing date (Day/Month/Year)	Priority date (Day/Month/Year)
PCT/EP2004/014787	29.12.2004	06.02.2004
Applicant SAURER GMBH & CO. KG		

- 1. The Applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the International Preliminary Report on patentability and its annexes, if any, established on the International Application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for Communication to all the elected Offices.
- 3. Where required by any of the elected offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those offices.

4. REMINDER

The Applicants must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the information sent by the International Bureau with form PCT/1B/301).

Where a translation of the International Application must be furnished to an elected Office, that translation must contain a translation of any annexes to the International Preliminary Report on patentability. It is the Applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices see Volume II of the PCT Applicant's guide.

The Applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purpose of International Preliminary Examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure of the invention and clarity and support for the claims.

Name and mailing address of the International	Authorised officer
Examining Authority:	
European Patent Office - P.B. 5818 Patentlaan 2	Appelen, A
NL-2280 HV Rijswijk – Netherlands	
Tel. +31 70 340 -2040, Tx: 31 651 epo nl	Tel. +31 70 340 – 4846 EPO stamp
Fax: +31 70 340 - 3016	· 1

Form PCT/IPEA/416 January 2004)

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

See Form PCT/IPEA/416

FOR FURTHER ACTION

WS 2254	PCT						
			International filing	date	Priority date (Day/Month/Year)		
}			(Day/Month/Year)				
PCT/EP2004/014787 29.12.2004					06.02.2004		
International Patent Classification (IPC) or national classification and IPC							
INV. D01H4/12 F16C39/06 D01H4/14 Applicant							
Applican	•						
SAURER	GMBH & CO.	KG					
1. This Exan	. This report is the international preliminary examination report, established by this International Preliminary Examining Authority according to Article 35 and transmitted to the Applicant according to Article 36.						
2. This	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
3. This	report is also ac	companied by	ANNEXES, comp	rising			
a. 🗆	Sheets (sent t	to the Applicar	nt and to the Intern	ational Bured	nu), as follows:		
	☐ Sheets of	f the description	on, claims and/or di	rawing which	have been amended and are the basis of this by this authority (see Rule 70.16 and		
			ninistration instruct		by mis dumonly (overland to the		
	□ Sheets w	hich supersed	e earlier sheets, bu	at which this	Authority considers contain an amendment		
		beyond the d and the supp		ternational A	pplication as filed, as indicated in Item 4 of		
b. 🗆				al of (indica	te type and number of electronic carrier(s),		
0.5	containing a	sequence listii	ng and/or tables re	lated thereto	, in electronic form only, as indicated in the		
	supplemental	box relating to	the sequence listing	ng (see Section	on 802 of the Administrative Instructions).		
4. This	report contains	indications rel	ating to the followi	ng items:			
	-			_			
X	Box No. I	Basis of the	report				
	Box No. II Box No. III	Priority	hment of oninions	with record	to novelty, inventive step and any industrial		
	BOX NO. III	applicability		Willi regard	to noverty, inventive step and any mandata		
	Box No. IV	Lack of unit	y of invention				
X	X Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive				with regard to novelty, inventive step and		
	n 11 17			s and explan	ations supporting such statement		
	Box No. VI	Certain docu		nal annlicati	n.		
	Box No. VII Box No. VIII		cts in the internation rvations on the inte				
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Date of submission of the request for preliminary examination			ioi pienimary	28.03.2006			
09.06.2005							
Name a	nd mailing a	ddress of t	the International	Authorised	officer		
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	Patent Office -		entiaan 2	Henningser	ı, O		
NL-2280 HV Rijswijk – Netherlands Tel. +31 70 340-2040 Tx: 31 651 epo nl Te					340- EPO stamp		
Fax: +31 70 340-3016					. 540 Samip		

Applicant's or agent's file reference

10/587558
IAP11 Rec'd PCT/PTO 31 JUL 2006
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No. PCT/EP2004/014787

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Box N	0. 1 <u>B</u>	Basis of the report			
1. langua	With reg ge in whi	gard to the language, this report is based on the International Application in the ch it was filed, if nothing different is stated under this point.			
	The report is based on a translation from the original language into the followin language, which is the language of the translation, which has been filed for the following purpose:				
		international search (according to Rules 12.3 and 23.1b) publication of the international application (according to Rule 12.4)			
invitat	cement sh	gard to the elements* of the international application, the report is based on neets which have been furnished to the receiving office in response to an Article 14 are referred to in this report as "originally filed" and are not annexed			
Descr i 1-9	iption, pa	nges in the originally filed version			
Claim 1-5	s, No.	in the originally filed version			
Draw i 1/2-2/2	ings, shee 2	ets in the originally filed version			
☐ listing		nce listing and/or any related tables - see supplemental box relating to sequence			
3. □	The amo	endments have resulted in the cancellation of:			
		Description: page			
	_	Claims: No.			
	_	Drawings: Sheet/Figs.			
		Sequence listing (specify): any tables relating to the sequence protocol (specify):			
4. 🗆	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered in the opinion of the authority to go beyond the disclosure as originally filed, as indicated in the supplemental box (Rule 70.2 c)).				
		Description: page			
		Claims: No.			
		Drawings: Sheet/Figs.			
		Sequence listing (specify):			
A 707		any tables relating to the sequence listing (specify):			
_		lies, some or all of the sheets may be marked "superceded".			
Form PC	T/IPEA/409 (January 2004)			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No. PCT/EP2004/014787

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; documents and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-5

No: Claims

Inventive step (IS) Yes: Claims 1-5

No: Claims

Industrial applicability (IA) Yes: Claims 1-5

No: Claims

2. Documents and explanations (Rule 70.7):

see supplementary sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SUPPLEMENTARY SHEET)

International Application No. PCT/EP2004/014787

Item V

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- 1. Reference is made to the following document:
 - D1: DE 100 32 440 A1 (W. SCHLARFHORST AG & CO) 17th January 2002
- 2. Document D1 is regarded as the closest prior art compared to the subject of claim 1. It discloses (the references in brackets relate to this document):
 - Rotor shaft of a spinning rotor with an annular magnetic bearing component (8), which is secured with respect to the centrifugal force effective during the spinning process by a ring liner (10), for radially and axially supporting the rotor shaft, wherein the rotatable magnetic bearing component (8) interacts with a stationarily arranged magnetic bearing component (19).
- 2.1 The subject of claim 1 therefore differs from the known D1 in that the magnetic bearing component connected to the rotor shaft (4) of the spinning rotor (3) is configured as a slotted permanent magnet ring (32, 42), in order to ensure the deformability required to draw on a ring liner (6, 7).
 - Accordingly, the subject of claim 1 of the application is novel in the context of Article 33(2) PCT.
- 2.2 The object to be achieved by the present invention can be seen in that the assembly of the magnetic bearing component has to be improved or simplified.
- 2.3 The solution proposed in the characterising part of claim 1 of the application to this object is not made obvious by any of the documents cited in the search report because the possibilities of a slotted permanent magnet ring are not dealt with.
 - This solution is therefore based on an inventive step (Article 33(3) PCT).
- 3. Claims 2 to 5 are dependent on claim 1 and therefore also meet the requirements of the PCT with regard to novelty and inventive step.